Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al. Attorney: David W. Maher (650-849-4400) Atty. Docket No: 22564-0707

Sheet 1 of 10



Test sample



Reference sample

Make RNA

Oligo dT-DNA-1 primer

Test RNA

Oligo dT-DNA-2 primer



Reference RNA

Make cDNA

cDNA from test RNA

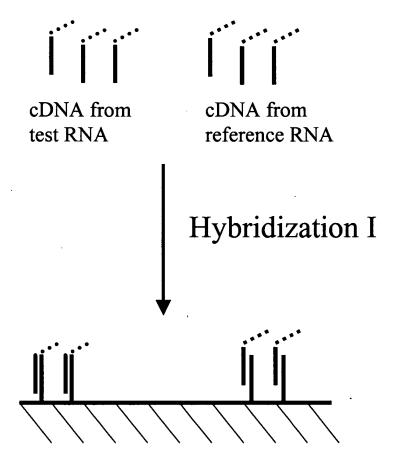
cDNA from reference RNA

FIGURE 1

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al. Attorney: David W. Maher (650-849-4400)

Atty. Docket No: 22564-0707

Sheet 2 of 10



# FIGURE 2

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al. Attorney: David W. Maher (650-849-4400) Atty. Docket No: 22564-0707

Sheet 3 of 10

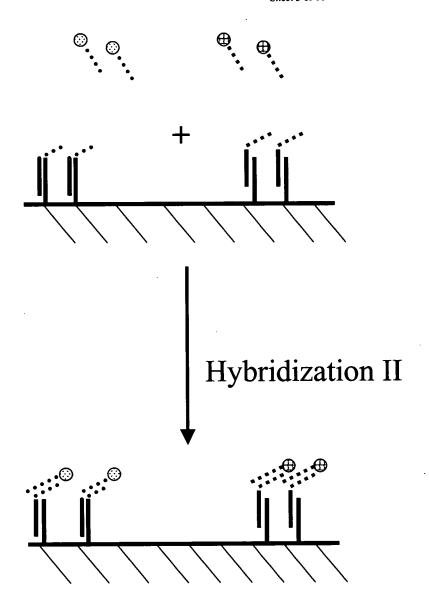


FIGURE 3

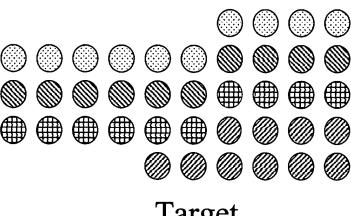
Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence

In Situ Hybridization" Inventors: Bittner, et al.

Attorney: David W. Maher (650-849-4400)

Atty. Docket No: 22564-0707

Sheet 4 of 10



- = Gene A (h-136)
- = Gene B (h-252)
- = Gene C (h-501)
- = Gene D (h-503)

### **FIGURE 4**

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al.

Attorney: David W. Maher (650-849-4400)

Atty. Docket No: 22564-0707

Sheet 5 of 10

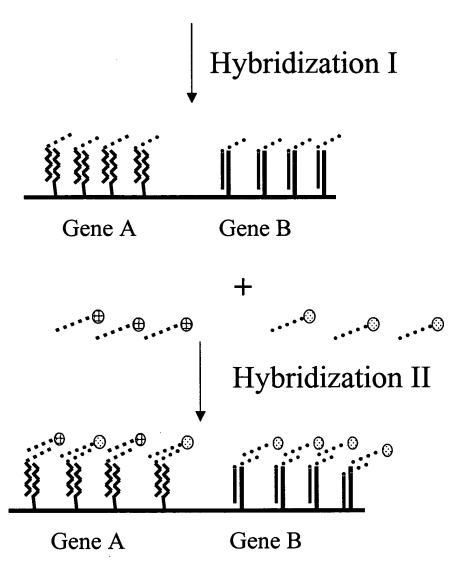


FIGURE 5A

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization"

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Attorney: David W. Maher (650-849-4400)

Atty. Docket No: 22564-0707

Sheet 6 of 10

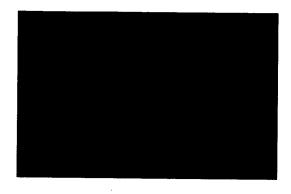


FIGURE 5B

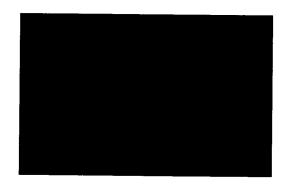


FIGURE 5C

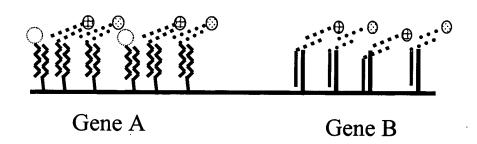
Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence

In Situ Hybridization" Inventors: Bittner, et al.

Attomey: David W. Maher (650-849-4400) Atty. Docket No: 22564-0707

Sheet 7 of 10

# Hybridization II



# FIGURE 6A

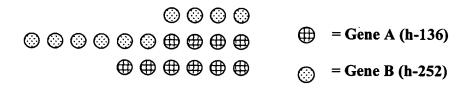


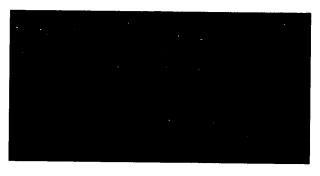
FIGURE 6B

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence

In Situ Hybridization"
Inventors: Bittner, et al.

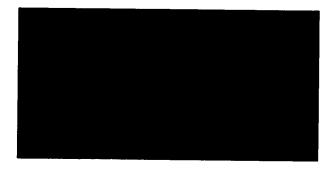
Attorney: David W. Maher (650-849-4400) Atty. Docket No: 22564-0707

Sheet 8 of 10



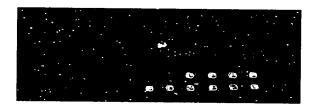
**Green Qdots signals** from Gene A,B

### FIGURE 6C



Red Qdots signals from Gene A, B

### FIGURE 6D



**Yellow Qdots** signals from Gene A

FIGURE 6E

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Sheet 9 of 10

Slide ID	Microarray 1	Microarray 2

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al. Attorney: David W. Maher (650-849-4400) Atty. Docket No: 22564-0707

Sheet 10 of 10

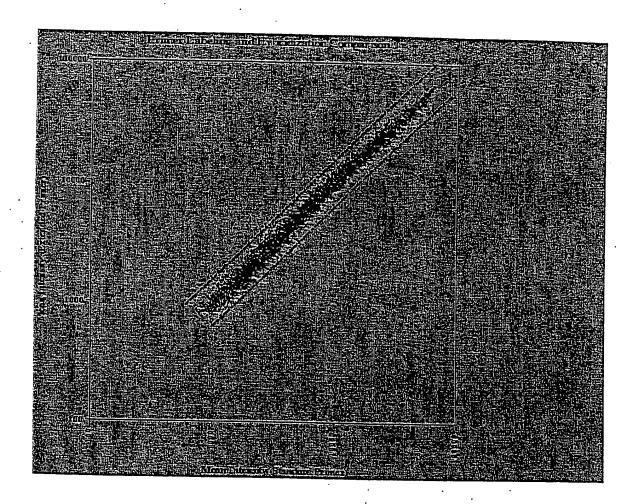


FIGURE 8